TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA Fort Meade Lab Total Field and QA/QC Analyses (not including QC Sample Summary lethod Link Bkgd Trip¹ Rinsate¹⁰ Dup MS/MSD MS/MSD)3 drinking water Alkalinity (SM 2320B) (Total Hardness, HCO3, CO3) (2320B, 2340B) 60 0 6 0 0 5 0 71 Proprietary method, SOP R3QA102 drinking water 60 6 5 3 71 lcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D) w/hazard/testmethods/pdfs/8015d_r4.pdf, SOP_R3QA203 drinking water nions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0) 60 6 0 5 0 71 /apex/f?p=237:45:1026167619929406::NO:::, SOP R3QA108 drinking water 0 5 0 71 Glycols incl. 2-Butoxyethanol (8321 Modified) 60 0 6 137:45:1026167619929406::NO:::, ASTM7731-11 Proprietary method drinking water thylene Glycol (8015M) 60 0 0 71 drinking water 2-Methoxyethanol (8321 and OLC03.2) 6 5 0 71 0 Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Ti, U, V, K, Li, Hg (200.8/245.1) drinking 60 6 71 :45::, https://www.nemi.gov/apex/f2p=237:45:1026167619929406::NO:::, SOP R3QA116, SOP R3QA131 Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Ti, U, V, K, Li, Hg (200.8/245.1) Filtered drinking 60 0 6 0 0 5 6 71 :45::, https://www.nemi.gov/apex/f?p=237:45:1026167619929406::NO:::, SOP R3QA116, SOP R3QA131 drinking H (9040C) 60 6 0 0 71 .gov/osw/hazard/testmethods/sw846/pdfs/9040c.pdf water drinking water hosphorus, Total (365.1) 60 6 0 5 0 71 .nemi.gov/apex/f?p=237:45:1026167619929406::NO::: Vitrate/Nitrite (353.2) 60 0 6 0 0 5 0 71 w.epa.gov/region6/6lab/methods/353_2.pdf drinking 3 iemi-Volatiles (TCL plus TICs) (CLP Trace plus TICS) (OLC03.2) 60 6 5 71 erfund/programs/clp/download/olc/olc32fs1.pdf, SOP R3QA201 water drinking 60 0 71 methylnapthalene (8270 or equivalent) v/hazard/testmethods/sw846/pdfs/8270d.pdf, SOP R3QA201 water 71 + Trip Blanks fo olatiles Incl. Acrylonitrile (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2) 60 0 6 0 5 3 erfund/programs/clp/download/olc/olc32fs1.pdf, SOP R3QA210 gov/scitech/methods/cwa/oil/1664.cfm, SOP R3QA163 Oil & Grease (HEM) (1664A) Solids, Total Dissolved (TDS) (2540C) Proprietary method, SOP R3QA105 Proprietary method, SOP R3QA106 drinking lids, Total Suspended (TSS) (2540 Key: Bkgd = Background QA/QC = Quality assurance/quality control Sample to be collected only if non-dedicated sampling equipment is used. Estimate based on 5 sampling days MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit. Sr = Strontium

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TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA EPA Region 9 Lab Total Field and QA/QC Analyses (not including Field Samples Parameter/Method ssolved Gases, Methane, Ethane, & Ethene (RSK-175) drinking 60 71 DRO (8015M) Key: Bkgd = Background MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit. otes: This QA sample will be an aqueous matrix. QA/QC = Quality assurance/quality control Sample to be collected only if non-dedicated sampling equipment is used. Estimate based on 5 sampling days Dup = Duplicate TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA EPA Region 2 Lab Total Field and Bkgd Parameter/Method Field¹ MS/MSD QA/QC Analyses s (MBAS) (SM 5540C) Key: Bkgd = Background MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit. Dup = Duplicate QA/QC = Quality assurance/quality control Sample to be collected only if non-dedicated sampling equipment is used. Estimate based on 5 sampling days Sr = Strontium

Contract No. EP-S3-10-14

DIM0184320 DIM0184321

DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA Isotech Lab Total Field and QA/QC Analyses (not including Field Samples Parameter/Method Rinsate¹ Blanks Dup MS/MS Blanks l¹³C and d²H of methane (isotech) 10 0 10 1¹³C of inorganic carbon (isotech) water drinking water drinking 10 0 0 table isotopes of water (O,H) (isotech) Complete compositional analysis of headspace gas (isotech) 10 Key: Bkgd = Background MS/MSD – Matrix Spike/Matrix Spike Duplicate QA/QC = Quality assurance/quality control Sample to be collected only if non-dedicated sampling equipment is used CRQL = Contract-Required Quantitation limit. Estimate based on 5 sampling days Dup = Duplicate TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA NAREL Lab Total Field and QA/QC Analyses (not including Field Samples Parameter/Method Bkgd Matrix Field1 Trip¹ Rinsate1 MS/MSD Dup iamma Spec (K-40, Ra-226, Ra-228 Th-232, Th-234, U-234, U-235, U-238) (901.1) a-226 (903.1) Blanks Ra-228 (904.0) oss Alpha/Beta (900.0) zues: This QA sample will be an aqueous matrix. Sample to be collected only if non-dedicated sampling equipment is used. Estimate based on 5 sampling days QA/QC = Quality assurance/quality control Sr = Strontium TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA TechLaw Pace Lab Total Field and QA/QC Analyses (not including QC Sample Summary Parameter/Method Bkgd MS/MSE Dup Blanks Blanks acteria (total coliform, HPC) 60 6 71 urbidity, Nephelometric (180.1) (Field measurement) Bkgd = Background This QA sample will be an aqueous matrix. QA/QC = Quality assurance/quality control Sample to be collected only if non-dedicated sampling equipment is used. Estimate based on 5 sampling days MS/MSD = Matrix Spike/Matrix Spike Duplicate CRQL = Contract-Required Quantitation limit.

Dup = Duplicate

TABLE 1 - 12/28/11
FIELD AND QC SAMPLING SUMMARY

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TABLE 2 - 12/28/11 SAMPLE ANALYTICAL REQUIREMENTS SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA						
Analytical parameter and Method	Matrix	Sample Preservation	Holding Time	Sample Container(s)	Procurement Sour	Number
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2- butanol (8015D)	drinking water	lce, 6°C	7 days	Three 40-ml glass vials (Fill to capacity with no head space)	Ft. Meade	3
Alkalinity (2320B, 2340B)	drinking water	Ice, 6°C	14 days	One 500-ml HDPE	Ft. Meade	1
Anions: Chloride, Bromide, Fluoride, Nitrate/Nitrate as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	drinking water	Ice, 6°C	28 days	One 500-ml HDPE	Ft. Meade	1
Bacteria (total coliform, HPC)	drinking water	Ice, 4°C (.008% Na2S2O3 if residual CI- present)	6 hours	125 ml Pre-sterilized polyproylene	Tier 4	1
d13C and d2H of methane (Isotech)	drinking water	ice, 4°C, biocide pill in sample container	6 months	one 1-L poly/TBD*	Tier 4	1
d13C of inorganic carbon (Isotech)	drinking water	lce, 4°C	6 months	one 1-L poly/TBD*	Tier 4	1
Complete compositional analysis of headspace gas (isotech)	drinking water	ice, 4°C, biocide pill in sample container	6 months	one 1-L poly/TBD*	Tier 4	1
Diss. gases methane, ethane, ethene (isotech)	drinking water	Ice, 4°C, biocide pill in sample container	6 months	one 1-L poly/TBD*	Tier 4	1
Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	drinking water	pH<2 with HCl and cool with ice, 4°C	7 days	One 40-ml glass vial	Tier 4	1
Ethylene Glycol (8015M)	drinking water	ice, 4°C	7 days	Three 40-ml glass vials (Fill to capacity with no head space)	Tier 4	3
DRO (8105M)	drinking water	ice, 4°C	7 days extract; 40 days analysis	Two 1-Liter amber glass jars with teflon-lined lids		2
		pH<2 with HCl and cool		Three 40-ml glass vials (Fill to capacity with no head		
GRO (8105M) Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th-234, U-235,	drinking water	with ice, 4°C pH<2 with HNO3 and cool	14 days	space)		3
U-238) (901.1)	drinking water	with ice, 4°C	6 months	One 1-Liter HDPE	Tier 4	1
Glycols incl. 2-Butoxyethanol (8316)	drinking water	Ice, 6°C	7 days	Three 40-ml glass vials (Fill to capacity with no head space)	Ft. Meade	3
diyuois inci. 2-butoxyethanoi (65±6)	drinking water	pH<2 with HNO3 and cool	7 days	space)	rt. Ivieaue	
Gross Alpha/Beta (900.0) Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr,	drinking water	with ice, 4°C pH<2 with HNO3 and cool	6 months	One 1-Liter HDPE	Tier 4	1
Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Hg (200.8/245.1)	drinking water	with ice, 4°C	6 months	One 1-Liter HDPE	Ft. Meade	1
Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V, K, Hg (200.8/245.1)	(filtered) drinking water	pH<2 with HNO3 and cool with ice, 4°C	6 months	One 1-Liter HDPE	Ft. Meade	1
Methylene Blue Active Substances (MBAS) (SM 5540C)	drinking water	Ice, 4°C pH<2, H2504, and cool	48 hours	One 500-ml HDPE	Tier 4	1
Nitrate/Nitrite (Total N) (353.2)	drinking water	with ice, 4°C pH<2, H25O4, and cool	7 days	Two 1-Liter amber glass jars with teflon-lined lids	Ft. Meade	2
Oil & Grease (HEM) (1664A)	drinking water	with ice, 4°C	28 days	One 1-Liter amber glass jars with teflon-lined lids	Tier 4	1
pH (9040C)	drinking water	lce, 6°C	As soon as possible	One 250-ml HDPE	Ft. Meade	1
Phosphorus, Total (365.1)	drinking water	Ice, 6°C	28 days	One 400-ml HDPE	Ft. Meade	1
Ra-226 (903.1)	drinking water	with ice, 4°C	6 months	One 1-Liter HDPE	Tier 4	1
Ra-228 (904.0)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	6 months	One 1-Liter HDPE	Tier 4	1
Semi-Volatiles (TCL plus TICs) (OLC03.2)	drinking water	ice, 6°C	7 days	Two 1-Liter amber glass jars with teflon-lined lids	Ft. Meade	2
Solids, Total Dissolved (TDS) (SM 2540C)	drinking water	lce, 6°C	7 days	One 500-ml HDPE	Ft. Meade	1
Solids, Total Suspended (TSS) (SM 2540D)	drinking water	ice, 6°C	7 days	One 500-ml HDPE	Ft. Meade	1
Stable isotopes of water (O,H) (Isotech)	drinking water	lce, 4°C	6 months	one 1-L poly/TBD*	Tier 4	1
Turbidity, Nephelometric (180.1)	drinking water	lce, 4°C	48 hours	One 250-ml HDPE	Tier 4	1
2-Methoxyethanol (8015B)	drinking water	ice, 6°C	7 days	Two 1-Liter amber glass jars with teflon-lined lids	Tier 4	2
1-methylnapthalene (8270 or equivalent)	drinking water	lce, 6°C	7 days	Two 1-Liter amber glass jars with teflon-lined lids	Tier 4	2
Volatiles (TCL plus TICs) (CLP Trace - 0.5 ug/L QL) (OLC03.2) incl. Acrylonitrile	drinking water	2 drops of 1:1 HCl, pH<2, lce, 6°C	7 days	Six 40-ml glass vials w/Teflon lined cap (no head space)	Pt. Meade	6
Note: Analyses will be combined into sample b KEY: "C = degrees Celsius C14 = Carbon 14 isotope CLP = Contract Lab Program D13C = delta of carbon-13 D2H = delta of deuterium	ml = milliliter Na2S2O3 = Sodium Th pH = potential Hydrog QL = Quantitation Limi Sr = Strontium	iosulfate en it	ermination by lab(s).			.50
H2SO4 = Sulfuric Acid HDPE = High density polyethylene	TCL = Target Compour TICs = Tentatively Iden	tified Compounds				
HNO3 = Nitric Acid HPC = Heterotrophic Plate Count	ug/L = micrograms per		Ti	2 1-L poly bottle with septum lid		

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